



The Great Grid Upgrade

Sea Link

Sea Link

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Part 2 Suffolk

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Suffolk Onshore Scheme Intra-Project Cumulative Effects Screening Tables

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1. Suffolk Screening Tables

Table 1.1 Landscape element receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
As effects have only been identified on this receptor from one topic (Landscape and Visual), there is no potential for an intra-project effect.			

Table 1.2 Residential receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
Nearby residential settlements in proximity to Viewpoints 1,14, 23,17	Chapter 1: Landscape and Visual	Construction, Operation and maintenance and Decommissioning: Adverse impact on visual amenity for residents.	Varies from Major adverse (Significant) to Negligible (Not Significant) during construction and decommissioning, and from Major adverse (Significant) to Moderate adverse (Significant) during operation and maintenance.
Nearby scattered properties in proximity to Viewpoints 3-8, 10, 12, 13, 16, 21 and 22	Chapter 1: Landscape and Visual	Construction, Operation and maintenance and Decommissioning: Adverse impact on visual amenity for residents.	Varies from Major adverse (Significant) to Minor adverse (Not Significant) during construction and decommissioning, and from Major adverse (Significant) to Negligible (Not Significant) during operation and maintenance.
Human receptors within 250 m of the Order Limits including residential properties in Saxmundham, Knodishall, Aldeburgh, Friston, Sternfield and Benhall.	Chapter 8: Air Quality	Construction and Decommissioning: Construction dust arising from trackout (transportation of dust and dirt onto the public road	Not Significant¹ during construction and decommissioning.

¹ The air quality assessment methodology determines whether an effect is significant and does not prescribe a magnitude. However, professional judgment has been applied to determine this effect as Negligible (Not significant).

Receptor	Relevant Topic	Effects	Residual Significance of Effects
		network), demolition, earthworks and construction activities.	
Human receptors within 200 m of the construction vehicle routes.	Chapter 8: Air Quality	Construction and Decommissioning: Construction vehicle emissions.	Not Significant¹ during construction and decommissioning.
Human receptors within 200 m of the vehicle routes accessing the Proposed Project.	Chapter 8: Air Quality	Operation and Maintenance: Operational vehicle emissions	Not Significant¹ during operation and maintenance.
Human receptors within 200 m of the construction compounds.	Chapter 8: Air Quality	Construction and Decommissioning: NRMM emissions	Not Significant¹ during construction and decommissioning.
Residential receptors	Chapter 9: Noise and Vibration	Construction and Decommissioning: Construction noise and vibration from construction activities such as underground cable construction and HDD.	Minor adverse (Not Significant) during construction and decommissioning.
Residential receptors	Chapter 9: Noise and Vibration	Operation and Maintenance: Operational noise from proposed Saxmundham Converter Station and Friston Substation.	Minor adverse (Not Significant) during operation and maintenance.

Table 1.3 Designated/non-designated heritage assets – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified during construction and operation and so there is a potential for an intra-project effect during this phase.			
Suffolk Heritage Coast	Chapter 1: Landscape and Visual	Construction, Operation and maintenance and Decommissioning: An adverse impact on visual amenity of Suffolk Heritage Coast.	Varies from Minor adverse (Not significant) during construction, operation and maintenance (year 1) and decommissioning, and Negligible (Not significant) during operation and maintenance (year 15).
Heritage assets	Chapter 3: Cultural Heritage	Construction, and Operation and maintenance: An adverse direct physical impact on the heritage assets and their setting.] Negligible to Minor adverse (not significant) during construction and Operation and maintenance.
Heritage assets and visitors	Chapter 9: Noise and Vibration	Construction and decommissioning: Noise and vibration from construction activities effecting physical heritage assets, as well as the people visiting the heritage sites.	Negligible to Minor adverse (Not significant) during construction and decommissioning.
Heritage assets and visitors	Chapter 9: Noise and Vibration	Operation and maintenance: Operational noise from proposed Saxmundham Converter Station and Friston Substation effecting physical heritage assets, as well as the people visiting the heritage sites.	Minor adverse (Not significant) during operation and maintenance.

Table 1.4 Designated and non-designated sites – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified during construction, operation and decommissioning and so there is a potential for an intra-project effect during this phase.			
Alde-Ore Estuary RAMSAR, Outer Thames Estuary SPA, Alde-Ore Estuary SPA, Sandlings SPA, Leiston – Aldeburgh SSSI, Alde-Ore Estuary SSSI, Alde-Ore and Butley Estuaries SAC, The Haven LNR, Grove Wood AW and Wildlife Site, Knodishall Common Wildlife Site, Benhall Green Meadows Wildlife Site, Great Wood AW and Wildlife Site, Aldeburgh Golf Course Wildlife Site and Aldringham to Aldeburgh Disused Railway Line Wildlife Site	Chapter 8: Air Quality	Construction and Decommissioning: Dust arising from trackout (transportation of dust and dirt onto the public road network), demolition, earthworks and construction activities which may impact upon ecological receptors.	(Not Significant) ¹ during construction and decommissioning.
Sandlings SPA, Leiston-Aldeburgh SSSI and RSPB North Warren Reserve, Disused Railway Line (Aldringham-Aldeburgh) County Wildlife Site, Great Wood County Wildlife Site, Grove Wood County Wildlife Site	Chapter 2: Ecology and Biodiversity	<p>Construction: Habitat loss, air quality, pollution (dust and spillages), disturbance and loss of functionally linked land.</p> <p>Operation and maintenance and Decommissioning: Habitat loss, air quality, pollution (dust and spillages), disturbance and loss of functionally linked land.</p>	<p>Negligible to Minor adverse (Not Significant) during construction.</p> <p>Negligible (Not Significant) during operation and maintenance and decommissioning.</p>

Receptor	Relevant Topic	Effects	Residual Significance of Effects
Suffolk Coast and Heaths AONB	Chapter 1: Landscape and Visual	Construction, operation and decommissioning: Adverse impact on the visual amenity of the AONB.	Varies from Minor adverse (Not significant) during construction, operation and maintenance (year 1) and decommissioning, and Negligible (Not significant) during operation and maintenance (year 15).

Table 1.5 Ecological receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
Ecological receptors such as habitats, ornithology, bats, badgers, fish, reptiles, dormouse	Chapter 2: Ecology and Biodiversity	Direct loss (temporary or permanent) of habitats. Reduced connectivity Pollution (spillages and dust) Introduction and spread of non-native and invasive species Killing and injury of fauna. Disturbance of birds and other fauna Shading impacts on riparian habitats Disturbance due to artificial/increased light Noise and vibration Changes to air quality Impacts to passages/migratory routes	Varies from Moderate beneficial (Significant) to Negligible (Not significant) throughout construction and operation and Minor adverse (Not significant) to Negligible (Not significant) during decommissioning.
Ecological receptors	Chapter 4: Water Environment	Construction and decommissioning: Adverse effects on ecological receptors within watercourses and banks of watercourses due to installation of temporary culverts.	Minor Adverse (Not significant) during construction and decommissioning.

Receptor	Relevant Topic	Effects	Residual Significance of Effects
Ecological receptors within 200m of the construction vehicle routes.	Chapter 8: Air Quality	Construction and Decommissioning: Construction vehicle emissions.	Not Significant¹ during construction and decommissioning.
Ecological receptors within 200m of the vehicle routes accessing the Proposed Project.	Chapter 8: Air Quality	Operation and Maintenance: Operational vehicle emissions	Not Significant¹ during operation and maintenance.
Ecological receptors within 200m of the construction compounds.	Chapter 8: Air Quality	Construction and Decommissioning: NRMM emissions	Not Significant¹ during construction and decommissioning.

Table 1.6 Water resources (existing abstractions and discharges) – Summary of environmental information

Receptor		Relevant Effects Topic	Residual Significance of Effects
More than one type of effect is identified for construction and decommissioning and so there is a potential for an intra-project effect during these phases.			
Water resources (existing abstractions and discharges)	Chapter 4: Water Environment	Construction and Decommissioning: Temporary deterioration of water quality could also have indirect effects in terms of detriment to existing abstraction and discharge licence holders due to receiving/supporting watercourses being degraded.	Negligible to Minor adverse (Not Significant) during construction and decommissioning.
Groundwater abstractions	Chapter 5: Geology and Hydrogeology	Construction and decommissioning: The mobilisation of existing contamination within groundwater.	Minor adverse (Not Significant) during construction and decommissioning.
Aquifer bodies	Chapter 5: Geology and Hydrogeology	Construction and decommissioning: Mixing of aquifer bodies due to the connection of aquifer units at trenchless crossings.	Negligible (Not Significant) during construction and decommissioning.
Groundwater	Chapter 5: Geology and Hydrogeology	Construction and decommissioning: Changes to groundwater levels, quality and groundwater flow as a result of dewatering. Operation and Maintenance: Changes to groundwater levels and/or recharge rates from the introduction of impermeable surfaces	Negligible (Not Significant) during construction, operation and maintenance and decommissioning.

Table 1.7 Watercourses and waterbodies – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction and decommissioning and so there is a potential for an intra-project effect during these phases.			
Watercourses	Chapter 2: Ecology and Biodiversity	<p>Construction and Decommissioning: Pollution, habitat loss and introduction of non-native species on habitats during construction or decommissioning.</p> <p>Shading impacts on aquatic macrophytes during construction or decommissioning.</p> <p>Operation and maintenance: Pollution and habitat loss on aquatic macrophytes and macroinvertebrates.</p>	Negligible (Not Significant) during construction, operation and maintenance and decommissioning.
River Fromus, Hundred River, River Alde	Chapter 4: Water Environment	<p>Construction and Decommissioning: Pollution by silt, oils, hydrocarbons and other construction materials at watercourse crossings.</p> <p>Pollution risks from trenchless watercourse crossings for cable route (bentonite breakout and water consumption).</p> <p>Temporary physical disturbance of channels and banks and change to flow regimes at watercourse crossings for access and the cable route.</p> <p>Temporary deterioration of water quality due to project discharges e.g. from dewatering or work site runoff.</p> <p>Impacts to water quality due to falling debris from scaffolding</p>	Varies from Minor adverse (Not Significant) to Negligible (Not Significant) during construction and decommissioning.

Receptor	Relevant Topic	Effects	Residual Significance of Effects
Ordinary watercourses, land drains and existing land uses	Chapter 4: Water Environment	Construction and Decommissioning: Pollution risks (silt and bentonite breakout) from trenchless watercourse crossings for cable route. Increased runoff rates and volumes, and impact on land drainage regime due to soil stripping, earthworks and excavations. Pollution risks from refuelling site vehicles Impacts on the hydromorphology of the watercourses due to temporary culvert installation	Varies from Minor adverse (Not Significant) to Negligible (Not Significant) during construction and decommissioning.
Floodplains, existing land uses and infrastructure	Chapter 4: Water Environment	Construction and Decommissioning: Temporary loss of floodplain storage, impediment of floodplain flows, and increased flood risk e.g. due to spoil storage in floodplain.	Minor adverse (Not Significant) during construction and decommissioning.

Table 1.8 Flood risk receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
As effects have only been identified on this receptor from one topic (Water Environment), there is no potential for an intra-project effect.			

Table 1.9 Soil – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
As effects have only been identified on this receptor from one topic (Agriculture and Soils), there is no potential for an intra-project effect			

Table 1.10 Public Rights of Way – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
PRoW Users	Chapter 1: Landscape and Visual	Construction, Operation and maintenance and Decommissioning: An adverse impact on visual amenity for public rights of way users.	Varies from Negligible adverse (Not significant) to Moderate adverse (Significant) during construction, operation and maintenance and decommissioning.
PRoW	Chapter 7: Traffic and Transport	Construction and Decommissioning: Severance Pedestrian Delay Non-Motorised User Amenity Fear and Intimidation PRoW Diversions and Closures Operation and Maintenance: PRoW Diversions and Closures	Varies from Negligible to Minor adverse (Not Significant) during construction and decommissioning. Varies from Negligible to Minor adverse (Not Significant) during operation and maintenance.
PRoW Users (including bridleways and footpaths)	Chapter 10: Socio-Economics, Recreation and Tourism	Construction, Operation, Maintenance and Decommissioning: PRoW Diversions and Closures, reduced local recreational walking/cycle routes. Construction and Decommissioning: Adverse impacts upon users of Footpath 491/006/0.	Varies from Negligible to Minor adverse (Not Significant) during construction, operation and maintenance and decommissioning. Moderate adverse (significant effect) during construction and decommissioning.

Table 1.11 Transport receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction phase and so there is a potential for an intra-project effect during these phases.			
Highway network (road links and junctions)	Chapter 7: Traffic and Transport	Construction and Decommissioning: Severance Pedestrian Delay Non- Motorised user Amenity Fear and Intimidation Driver Delay Road Safety Hazardous/ Large Loads	Varies from Negligible to Minor adverse (Not Significant) during construction and decommissioning.
Walking and cycling routes	Chapter 7: Traffic and Transport	Construction and Decommissioning: Severance Pedestrian Delay Non-Motorised User Amenity Fear & Intimidation PRow Diversions and Closures Operation and Maintenance: PRow Diversions and Closures	Varies from Negligible to Minor adverse (Not Significant) during construction and decommissioning. Varies from Negligible to Minor adverse (Not Significant) during operation and maintenance.
Cyclists	Chapter 1: Landscape and Visual	Construction, Operation and maintenance and Decommissioning: An adverse impact on visual amenity for cyclists using cycle paths.	Varies from Negligible adverse (not significant) to Moderate adverse (Significant) during construction, operation and maintenance and decommissioning.
Road/Rail users	Chapter 1: Landscape and Visual	Construction, Operation and maintenance and Decommissioning:	Varies from Negligible adverse (not significant) to Moderate adverse (Significant) during construction,

Receptor	Relevant Topic	Effects	Residual Significance of Effects
		An adverse impact on visual amenity for drivers using major A roads, B roads, the local highway network and passengers on the railway route between Saxmundham and Ipswich and Saxmundham and Leiston.	operation and maintenance and decommissioning.
Drivers	Chapter 9: Noise and Vibration	Construction and decommissioning: Noise from construction activities	Varies from Negligible to Minor adverse (Not significant) during construction and decommissioning.
Drivers	Chapter 9: Noise and Vibration	Operation and maintenance: Operational noise from proposed Saxmundham Converter Station and Friston Substation	Minor adverse (Not significant)

Table 1.12 Recreation and Communities – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
Recreational Users	Chapter 1: Landscape and Visual	<p>Construction, Operation and maintenance and Decommissioning:</p> <p>An adverse impact on visual amenity for recreational users using or visiting the Aldeburgh Golf Course and Knodishall Common.</p>	Varies from Negligible adverse (not significant) to Minor adverse (not significant) during construction, operation and maintenance and decommissioning.
Communities	Chapter 10: Socio-Economics, Recreation and Tourism	<p>Construction and decommissioning: The direct, indirect and induced employment generated from the construction of the Kent Onshore Scheme.</p>	Minor beneficial (Not significant)
		<p>Construction and decommissioning: Decreased availability of local accommodation facilities.</p>	Negligible adverse (not significant)
		<p>Construction and decommissioning: Increase in GVA generation</p>	Minor beneficial (Not significant)
		<p>Construction and decommissioning: Land take, amenity impacts, connectivity impacts and hindrance to other developments impacting upon communities, recreational user and tourists.</p>	Minor adverse (not significant)

Table 1.13 Human Health – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
Human receptors	Chapter 5: Geology and Hydrogeology	<p>Construction and Decommissioning: Exposure to existing potential contamination through ground disturbance during construction and decommissioning activities.</p> <p>Construction, Operation, Maintenance and Decommissioning: Ingress and accumulation of ground gas in buildings/confined spaces/trenches, resulting in explosion/asphyxiation/exposure.</p>	Negligible (Not Significant) during construction, operation and maintenance and decommissioning.
	Chapter 11: Health and Wellbeing	<p>Construction, Operation and Maintenance and decommissioning: Reduced access to healthcare other social infrastructure, open spaces and leisure activities for the local population.</p> <p>Increased exposure to dust, particulate matter, noise and vibration.</p> <p>Reduced means of active travel (cycling/walking) and disruptions to community connectivity.</p> <p>Changes to landscape and visual amenity.</p> <p>Construction and Decommissioning: Beneficial employment, training and income opportunities from working on the Proposed Project.</p>	Varies from Negligible (Not Significant) to Minor adverse (not significant) during construction, operation and maintenance and decommissioning.

Receptor	Relevant Topic	Effects	Residual Significance of Effects
			Minor beneficial (not significant) during construction and decommissioning.
Human health	Chapter 8: Air Quality	<p>Construction and Decommissioning: Effects on human health from vehicle emissions, NRMM emissions, and construction dust.</p> <p>Operation and Maintenance: Effects on human health from operational vehicle emissions.</p>	(Not Significant)¹ during construction, operation and maintenance and decommissioning.

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